

REGULATION 1.06 Stationary Source Self Monitoring, Emissions Inventory Development, and Reporting

**Air Pollution Control District of Jefferson County
Jefferson County, Kentucky**

Relates To: KRS Chapter 77 Air Pollution Control

Pursuant To: KRS Chapter 77 Air Pollution Control

Necessity And Function: KRS 77.180 authorizes the Air Pollution Control Board to adopt and enforce all orders, rules, and regulations necessary or proper to accomplish the purposes of KRS Chapter 77. This regulation establishes the conditions for stationary source self monitoring, emissions inventory development, and reporting.

SECTION 1 In-Stack Self Monitoring and Reporting

The District may require the owner or operator of a process or process equipment to install, operate, and maintain stack gas measuring, emission monitoring, and parametric monitoring equipment. For cause, including, but not limited to, the incineration of hazardous or infectious waste or repeated or on-going violations, the District may also require data storage and transmission equipment and lines. The owner or operator of a process or process equipment that is required to install, operate, and maintain this measuring or monitoring equipment shall maintain records of monitoring data and make periodic reports of these data in a form, units, and at the time intervals required by the District. Requirements for specific affected facilities are contained in the applicable regulations. The District, for cause, may require additional or more stringent requirements for an individual affected facility than those required in the regulations otherwise applicable to that affected facility.

SECTION 2 Ambient Air Monitoring

The District may require the owner or operator of a process or process equipment to install, operate, and maintain ambient air monitoring equipment in accordance with methods prescribed by the District, and in the number and frequency as prescribed by the District, and to make periodic ambient air monitoring reports at intervals as prescribed by the District.

SECTION 3 Emissions and Related Data Reporting

3.1 The owner or operator of a stationary source shall submit an emissions statement for particulate matter, sulfur dioxide, carbon monoxide, nitrogen dioxide, ozone precursor emissions of volatile organic compounds and oxides of nitrogen, lead, ammonia, and all hazardous air pollutants as listed in Regulation 5.14 *Hazardous Air Pollutants and Source Categories* to the District as follows:

3.1.1 Each year, on or before April 15th of the year, for the previous calendar year of operation, for a stationary source subject to Regulation 2.16 *Title V Operating Permits* (Group 1 stationary source),

3.1.2 Each year, on or before April 15th of the year, for the previous calendar year of operation, for either of the following (Group 2 stationary source):

3.1.2.1 A stationary source that applied for an operating permit pursuant to Regulation 2.17 *Federally Enforceable District Origin Operating Permits*, or

3.1.2.2 A stationary source that is subject to the permit requirements of Regulation 2.03

- section 1.1 or 1.2 but is not included in section 3.1.1, 3.1.2.1, 3.2, 3.3, or 3.4 of this regulation if the actual emissions from the stationary source are 25 or more tons per year individually of sulfur dioxide, particulate matter, volatile organic compounds, or oxides of nitrogen, and
- 3.1.3 Beginning April 15, 2006, and every third year thereafter, on or before April 15th of the year, for the previous calendar year of operation, for a stationary source that is subject to the permit requirements of Regulation 2.03 section 1.1 or 1.2 but is not included in section 3.1.1, 3.1.2, 3.2, 3.3, or 3.4 of this regulation (Group 3 stationary source), unless the District has notified the owner or operator of the stationary source in writing that an emissions statement is required every year.
- 3.2 Beginning April 15, 2005, the owner or operator of a gasoline dispensing facility subject to the provisions of Regulation 6.40 *Standards of Performance for Gasoline Transfer to Motor Vehicles (Stage II Vapor Recovery and Control)*, which does not include the initial transfer of gasoline into the fuel tanks of new motor vehicles at an automobile or truck assembly plant, shall submit to the District, on or before April 15th of the year, the gasoline throughput, by grade, by month, for the previous calendar year of operation. In addition, beginning April 15, 2006, and every third year thereafter, the owner or operator shall submit to the District, on or before April 15th of the year, the amount, by type, in gallons per year, of cold cleaner material used for the previous calendar year.
- 3.3 Beginning July 15, 2006, and every third year thereafter, the owner or operator of a stationary source that is subject to the provisions of Regulation 6.44 *Standards of Performance For Existing Commercial Motor Vehicle And Mobile Equipment Refinishing Operations* or Regulation 7.79 *Standards of Performance For New Commercial Motor Vehicle And Mobile Equipment Refinishing Operations* and is not a stationary source described in either section 3.1.1 or 3.1.2 shall submit to the District, on or before July 15th of the year, the amount, in gallons, of coating and solvent, by type, used each month for the previous calendar year.
- 3.4 Beginning April 15, 2006, and every third year thereafter, the owner or operator of a stationary source that is subject to the provisions of Regulation 5.02 *Adoption of National Emission Standards for Hazardous Air Pollutants* section 3.12 *National Perchloroethylene Air Emission Standards for Dry Cleaning Facilities* and is not a stationary source described in either section 3.1.1 or 3.1.2 shall submit to the District, on or before April 15th of the year, the perchloroethylene usage, by month, for the previous calendar year.
- 3.5 The District may require the owner or operator of any stationary source to submit additional information regarding processes, process equipment, and the actual or potential emissions related to any process or process equipment at the stationary source to the District on forms supplied by the District. The forms shall be returned to the District by the deadline date stated in the letter of transmittal with the forms or stated in the forms themselves.
- 3.6 For purposes of complying with the provisions of this regulation, all emissions shall be calculated using emission factors from EPA AP 42, other methods defined in the EPA-approved District regulations, stack test or CEMS data, or other procedures defined by the owner or operator that have been approved in writing by the District. If these other District-approved procedures are used, the District shall provide all documentation on the emissions calculation procedures to the EPA, upon request.
- 3.7 The emissions data required by sections 3.1 to 3.5 shall include the process- or process equipment-specific calculations used to determine emissions. The raw data used to calculate

the emissions shall be retained by the owner or operator of the stationary source for a period of not less than 5 years and shall be made available to the District upon request. Representative portions of the raw data used to calculate the emissions shall be supplied to the District in support of the emissions statement in a format provided by the District.

SECTION 4 Enhanced Emissions Data for Toxic Air Contaminants

4.1 As used in Section 4:

4.1.1 “Category 1 TAC” means a toxic air contaminant (TAC) listed in Regulation 5.23 *Categories of Toxic Air Contaminants* Section 1,

4.1.2 “Category 1A TAC” means a toxic air contaminant listed in Regulation 5.23 Section 2, and

4.1.3 “Uncontrolled emissions” means the maximum amount of an air contaminant that could be emitted from a process or process equipment under its physical and operational design, regardless of any enforceable limitation on the potential to emit of the process or process equipment and the effect of any air pollution control equipment or control equipment that reduces emissions that is vital to production of the normal product or to the normal operation of the process or process equipment.

4.2 The owner or operator of a stationary source shall submit enhanced emissions statements for listed toxic air contaminants (TACs) to the District as follows:

4.2.1 For a stationary source subject to Regulation 2.16 (Group 1 stationary source) the actual and uncontrolled emissions by process or process equipment and the related stack and fugitive emission release parameters listed in section 4.3 as follows:

4.2.1.1 Category 1 TACs Calendar Year 2004 Due 7-15-05, and

4.2.1.2 Categories 1 and 1A TACs Calendar Year 2005 Due 7-15-06, and each year thereafter, and

4.2.2 For a stationary source that applied for an operating permit pursuant to Regulation 2.17 or a stationary source that is described in section 3.1.2.2 (Group 2 stationary source), the following

4.2.2.1 The actual emissions by process or process equipment as follows:

4.2.2.1.1 Categories 1 and 1A TACs Calendar Year 2005 Due 7-15-06, and each year thereafter, and

4.2.2.2 The related stack and fugitive emission release parameters listed in section 4.3 as follows:

4.2.2.2.1 Categories 1 and 1A TACs Due 7-15-07.

4.3 The related stack and fugitive emission release parameters are as follows:

4.3.1 Plot plan, drawn to scale, showing all of the following:

4.3.1.1 Property line,

4.3.1.2 Fences,

4.3.1.3 Scale,

4.3.1.4 North arrow,

4.3.1.5 Buildings and other structures,

4.3.1.6 Height of buildings and other structures (if buildings have tiers, profile of building tiers),

4.3.1.7 Location of processes and process equipment,

4.3.1.8 Location of points of emission, and

- 130 4.3.1.9 UTM coordinates for corners of property, fences, buildings, and points of emission,
131 4.3.2 For each process, all of the following:
132 4.3.2.1 The operating schedule in hours per day, days per week, and weeks per year,
133 4.3.2.2 The chemical name for each listed TAC emitted,
134 4.3.2.3 The actual (and, if required, for the first year's emissions inventory submittal and for
135 new or modified processes and process equipment, the uncontrolled) annual, average
136 hourly and daily, and maximum hourly and daily emission rates for each listed TAC,
137 and
138 4.3.2.4 For the process emissions:
139 4.3.2.4.1 Whether the emission is a stack, fugitive, or area/pit emission,
140 4.3.2.4.2 The percentage of the overall process emissions that are stack, fugitive, or area
141 or pit, and
142 4.3.2.4.3 The amount of emissions for each point of emission for each listed TAC,
143 4.3.3 For each stack, all of the following:
144 4.3.3.1 Stack height,
145 4.3.3.2 Stack diameter (or dimensions if the stack is not round),
146 4.3.3.3 Exhaust gas temperature at stack exit point,
147 4.3.3.4 Exhaust gas exit velocity, and
148 4.3.3.5 Exhaust gas flow rate in ACFM,
149 4.3.4 For fugitive and area or pit emissions, all of the following:
150 4.3.4.1 Dimensions of the point of release, and
151 4.3.4.2 Height of the point of release, and
152 4.3.5 For flares, all of the following:
153 4.3.5.1 Flare tip height,
154 4.3.5.2 Flare input gas stream volumetric flow rate,
155 4.3.5.3 Identification of each component of the flare input gas stream, and
156 4.3.5.4 Volumetric fraction for each component of the flare input gas stream.
157 4.4 The uncontrolled emissions for each listed toxic air contaminant, if required, and the related
158 stack and fugitive emission release parameters as required to be submitted pursuant to section
159 4.2 are required to be submitted only once unless there is a change in the information that has
160 been submitted. The current actual annual, average hourly and daily, and maximum hourly
161 and daily emission rates of each listed toxic air contaminant are required to be submitted
162 each year according to the schedule in section 4.2.
163 4.5 If the District determines, based upon the information that the District has, that the
164 concentration of a toxic air contaminant in the ambient air, resulting from the emission by
165 a stationary source that is not required to submit the related stack and fugitive emission
166 release parameters listed in section 4.3, may be greater than the level that would be
167 considered environmentally acceptable pursuant to Regulation 5.21 *Environmental*
168 *Acceptability for Toxic Air Contaminants* section 2.5.2 or 2.5.3, then the District may
169 require the owner or operator of the stationary source to submit the applicable stack and
170 fugitive emission release parameter information. In this case, the District shall provide
171 written notice to the owner or operator of the stationary source, specifying the required
172 information to be submitted and the applicable deadline.
173 4.6 If the District determines that the concentration of a toxic air contaminant in the ambient air
174 is, or may be, greater than the level that would be considered environmentally acceptable

pursuant to Regulation 5.21 section 2.8.1 or 2.8.2 and a potentially responsible entity for the emissions of the toxic air contaminant is identified, then the District may require the owner or operator of an identified stationary source to submit the information identified in sections 4.2 and 4.3 of this regulation. If the stationary source is already scheduled to submit the information identified in section 4.2 and 4.3, then the District may require the information to be submitted on an accelerated schedule. In either case, the District shall provide written notice to the owner or operator of the stationary source, specifying the required information to be submitted and the applicable deadline.

SECTION 5 Certification by a Responsible Official

The information submitted to the District pursuant to this regulation shall contain a formal certification by a responsible official, as defined in Regulation 2.16 section 1.35 (excluding section 1.35.1.1), of the truth, accuracy, and completeness of the information. The certification required is as follows:

"Based on information and belief formed after reasonable inquiry, I certify that the statements and information in this document are true, accurate, and complete."

SECTION 6 Confidentiality and Open Records Requirements

Nothing in this regulation is intended to preempt the confidentiality and open records provisions of Regulation 1.08 *Administrative Procedures*.

Adopted v1/4-19-72; effective 4-19-72; amended v2/9-1-76, v3/6-13-79, v4/12-17-86, v5/11-18-92, v6/12-15-93.